

## ABSTRACT

A process for chroming an inner surface of a component, in which the inner surface which is to be coated is not brought into contact with a powder which forms the coating gas, includes: providing a mixture of chromium granules and an activator; heating the mixture to a temperature at which a coating gas which substantially comprises gaseous  $\text{CrCl}$  is formed; dissipating the coating gas; and exposing the inner surface of the component to the coating gas thereby forming a chromium-containing diffusion layer.